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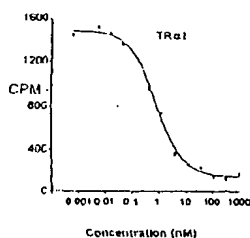
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- (71) Applicant (for all designated States except US):  
**METABASIS THERAPEUTICS, INC.** [US/US];  
9390 Towne Centre Drive, San Diego, CA 92121 (US).
- (72) Inventors; and  
(75) Inventors/Applicants (for US only): **ERION, Mark, D.**  
[US/US]; 13455 Mango Drive, Del Mar, CA 92104 (US).  
**JIANG, Hongjian** [CN/US]; 13106 Sierra Mesa Road, San  
Diego, CA 92129 (US). **BOYER, Serge, H.** [FR/US]; 5112  
Castle Hills Drive, San Diego, CA 92109 (US).
- (74) Agents: **ESMOND, Robert, W.** et al.; **STERNE,**  
**KESSLER, GOLDSTEIN & FOX P.L.L.C.**, 1100 New  
York Avenue, N.W., Washington, DC 20005-3934 (US).
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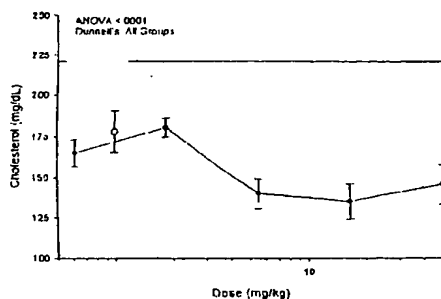
[Continued on next page]

(54) Title: NOVEL PHOSPHORUS-CONTAINING THYROMIMETICS

Homologous Displacement Reactions



T3 Binding Assay Results



Effect of Compound 13-1-*cis* (●) and Compound 18 (○)  
on Cholesterol in Cholesterol Fed Rats

(57) Abstract: The present invention relates to compounds of phosphonic acid containing T3 mimetics, stereoisomers, pharmaceutically acceptable salts, co-crystals, and prodrugs thereof and pharmaceutically acceptable salts and co-crystals of the prodrugs, as well as their preparation and uses for preventing and/or treating metabolic diseases such as obesity, NASH, hypercholesterolemia and hyperlipidemia, as well as associated conditions such as atherosclerosis, coronary heart disease, impaired glucose tolerance, metabolic syndromex and diabetes.

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TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

compounds of formula III according to claim 14,  
pharmaceutical compositions comprising such compound of  
formula III, methods including a therapy using such  
compound of formula III  
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12. claim: 73

compounds of formula X  
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13. claim: 74

Method of improving liver/heart selectivity of a  
thyromimetic compound of formula Y  
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14. claim: 75

Method of increasing the therapeutic index of a thyromimetic  
compound of formula Y  
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15. claim: 76

Method of designing a thyromimetic compound having  
improved liver/heart selectivity.  
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16. claim: 77

Method of designing a thyromimetic compound having  
improved therapeutic index  
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# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

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# INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 31/28, 31/445, 31/435; C07F 9/06  
US CL : 514/492, 514/315, 514/277; 546/22; 556/19

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 514/492, 514/315, 514/277; 546/22; 556/19

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 6,465,687 B1 ( LI et al.) 15 October, 2002 (15.10.2002), column 23-24.	1-116 ----- 1-116
X --- Y	US 3,357,887 (KAGAN et al.) 12 December 1967 (12.12.1967), columns 1 and 10	1-116 ----- 1-116

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Facsimile No. (571)273-8300

Authorized officer

Robert Shiao

Telephone No. (571)272-1600